

THE AMERICAN COLLEGE, MADURAI

(An Autonomous Institution Affiliated to Madurai Kamaraj University) Re-accredited (2nd Cycle) by NAAC with Grade "A", CGPA – 3.46 on a 4-point scale

Backlog Arrear Examination, March 2021

BCH 3632

Plant Biochemistry

Max Marks: 75 Time: 3 Hrs.

PART A

I. Answer any Five questions each not exceeding 4 pages:

 $(5 \times 15 = 75)$

- Describe the mechanism of stomata opening and closing with neat diagram.
- Discuss the Non cyclic photo phosphorylation in plants with neat schematic representation.
- 3. Elaborate on the sources and functions of plant hormones.
- Describe the microbial flora, development of root nodules and the biochemistry of Biological nitrogen fixation in plants with a neat schematic diagram.
- Define Secondary metabolites. Illustrate the shikimic acid pathway of synthesis of secondary metabolites.
- Describe the Melvin Calvin cycle with neat diagram.
- Give short notes on the classification of terpeniods.